

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Takayuki GOMI; Hiroaki AMMO

ATTORNEY DOCKET NO.: 09792909-3746

SERIAL NO.: 0

08/965,286

GROUP ART UNIT:

281 FJONES

10-16-0

FILED:

November 6, 1997

EXAMINER:

O. Nadav

TITLE: SEMICONDUCTOR DEVICE INCLUDING HIGH SPEED TRANSISTORS AND HIGH VOLTAGE TRANSISTORS DISPOSED ON A SINGLE SUBSTRATE

RESPONSE "I" TO NON FINAL OFFICE ACTION

BOX Non Fee Amendment Assistant Commissioner for Patents Washington, D.C. 20231

SIR:

Regarding the Office Action mailed August 1, 2001, please enter the following amendments and consider the remarks below.

IN THE CLAIMS

Please amend claims 1, 20 and 24 and add new claims 27-29 as follows:

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1. (Amended Seven Times) A semiconductor device having a first vertical type bipolar transistor and a second vertical type bipolar transistor having a breakdown voltage that is higher than a breakdown voltage of the first vertical type bipolar transistor, the semiconductor device comprising:

a substrate defining a datum surface, wherein the substrate is a first conductive type substrate;

an epitaxial layer formed on the substrate above the datum surface;

a first embedded diffusion layer formed as part of a first vertical type bipolar transistor in a first upper part of the substrate and in the epitaxial layer;

08/965,286 Cstmr No. 026263 DVM/VPT/rmg/#14182891.1 Attorney Docket Number 09792909-3746

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SONNENSCHEIN, NATH & ROSENTHAL

P.O. Box 061080

Wacker Drive Station - Sears Tower Chicago, IL 60606-1080 312/876-8000

IN RE APPLICATION cayuki GOMI, et al. OLD ATTORNEY DOCKET NO. P97,2608

NEW ATTORNEY DOCKET NO. 09792909-3746

2811

SERIAL NO.:

08/965,286

GROUP ART UNIT:

FILED:

November 6, 1997

EXAMINER:

O. NADAV

FOR:

"SEMICONDUCTOR DEVICE INCLUDING HIGH SPEED TRANSISTORS AND

HIGH VOLTAGE TRANSISTORS DISPOSED ON A SINGLE SUBSTRATE"

RESPONSE "I" TO NON-FINAL OFFICE ACTION

BOX Non-Fee Amendment Assistant Commissioner of Patents Washington, D.C. 20231

SIR:

Transmitted herewith is an amendment in the above-identified application.

Additional claim fee is required.

The fee has been calculated as shown below.

CLAIMS AS AMENDED							
	(2) CLAIMS REMAINING AFTER AMENDMENT		(4) HIGHEST NO. PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEE	
TOTAL CLAIMS	14	MINUS	20	0	() X 9.00 () X 18.00	\$0.00	
INDEP. CLAIMS	2	MINUS	3	0	() X 40.00 () X 80.00		
	amended to contain dependent claims ly paid for.			() YES () NO	()\$130.00 ()\$260.00 ONE TIME		
			TOTAL ADDITIONAL FEE FOR THIS AMENDMENT		\$0.00		

If the entry in Column 2 is less than the entry in Column 4, write "0" in Column 5

* 1	k	If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20 write	"20" in this space
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	If the Trighest Number Previously Paid Pot. In Title Street is less than 20 write 20 in this space.
	This is a general authorization under 37 CFR 1.136(a)(3) to treat any concurrent or future reply, requiring a petition for an
	extension of time for its timely submission, as incorporating a petition for extension of time for the appropriate length of time.
	Applicant petitions the Commissioner of Patents and Trademarks under 37 CFR 1.136(a) to extend the period for filing a reply
	in the above identified application to the Office Action dated for month(s) so that the period for response is
	extended to A check in the amount of \$ is enclosed to cover the fee.
	A check in the amount of \$0.00 is attached to cover the additional claim fee.
	A check for \$ accompanying attached Terminal Disclaimer under 37 C.F.R. §1.321.
	A check for \$ for Amendment Under 37 C.F.R. 1.312(b) is attached.
\boxtimes	The Commissioner is hereby authorized to charge the extension fee and any additional fees which may be required, or to credit
	any overpayment to account No. 19-3140. A duplicate of this sheet is enclosed.
	When phoning re this application, please call 312/876-8000 - Ext. 12886.
	SONNENSCHEIN NATH & ROSENTHAL

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(Reg. No. 29,927)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to BOX Non-Fee Amendment, Assistant Commissioner of Ratents, Washington, D.C. 20231 on October 2, 2001.